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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/810,518
		Filing Date	March 18, 2005
		First Named Inventor	Thomas H. Barrows
		Group Art Unit	1614
		Examiner Name	Unknown
Sheet 1 of 1	Attorney Docket Number	010414-9012- US00	

U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
Jaw	3596292	Erb et al.	08/1971
	5061284	Laghi	10/1991
	5194473	Shinoda et al.	03/1993
	5611811	Goldberg	03/1997
	5723508	Healey et al.	03/1998
	6474344	Yamada	11/2002
	6503539	Gestrelus et al.	01/2003
	11/107230	Barrows	04/2005
Jaw	11/203804	Barrows	08/2005

FOREIGN PATENT DOCUMENTS

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract

Examiner Signature	<i>John K. Wan</i>	Date Considered	12-26-06
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
Jan	ARASE, S. et al., "Co-culture of human hair follicles and dermal papillae in a collagen matrix," J. Dermatol. (1990) 17:667-676
	ARIAS, AM and Stewart A. (2002) Molecular Principles of Animal Development Oxford University Press, Oxford
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Jar		FIESER, L.F. and FIESER, M., "Reagents for Organic Synthesis," John Wiley and Sons, Inc. (1967) 704-706
		GHARZI et al., "Plasticity of hair follicle dermal cells in wound healing and induction," Exp. Dermat. (2003) 12:126-136
		GILBERT, S.F., "Development of the tetrapod limb," Developmental Biology, Sinauer Associates, Inc. (2000) 503-521
		GURDON, J.B. "The localization of an inductive response" Development (1989) 105:27-33
		HANDJISKI, B.K. et al., "Alkaline phosphatase activity and localization during the murine hair cycle" Br J Dermatol (1994) 131:303-310
		HANSEN, L.S. et al., "The influence of the hair cycle on the thickness of mouse skin" Anat Rec (1984) 210:569-573
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Jar		KANZLER, B. et al., "Differential expression of two different homeobox gene families during mouse tegument morphogenesis," Int. J. Dev. Biol. (1994) 38:633-640

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DK	KATAYAMA, S. et al., "Synthesis of Alternating Polyamide Esters by Melt and Solution Polycondensations of N,N'-Di(6-hydroxycaproyl) dimines and N-6-Hydroxycaproyl Aminoalcohol with Terephthalic and Adipic Dimethyl Esters and Dichlorides" J. of Applied Polymer Science (1976) 20:975-994
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	MA, L. et al., "Cyclic alopecia in Msx2 mutants: defects in hair cycling and hair shaft differentiation" Development (2003) 130:379-389
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	PHILPOTT, M. et al., "In vitro maintenance of isolated hair follicles: current status and future development," Ex. Dermatol. (1999) 8(4):317-319 Abstract
DK	PISPA, J. and THESLEFF, I., "Mechanisms of ectodermal organogenesis," Dev Biol (2003) 262:195-205

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Wen	POWELL, B.C. et al., "The Notch Signalling pathway in hair growth" Mech Dev (1998) 78:189-192
	PROUTY, S.M. et al., "Fibroblast-dependent induction of a murine skin lesion similar to human nevus sebaceus of jadassohn," Lab. Invest (1997) 6(2):179-189
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Wen	TAKEDA, A. et al., "Histodifferentiation of hair follicles in grafting of cell aggregates obtained by rotation culture of embryonic rat skin" Scand J. Plas Reconstr Hand Surg (1998) 32:359-364

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dg	TAKEDA, A. et al., "Reconstitution of hair follicles by rotation culture," Hair Research for the Next Millennium, eds. Van Neste and Randall, Elsevier Science BV (1996) 191-193
	TSONIS, P.A. Limb Regeneration, Cambridge University Press, Cambridge (1996) 241
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da	Atlas of Anatomy Barron's Educational Series, Inc., 1997, Page 72

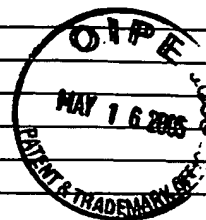
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US. PATENTS			
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Sra	2946769	Rose et al.	07/1960
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5486593	Tang et al.	01/1996	
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SJA	5514378	Mikos et al.	05/1996
	5522841	Roby et al.	06/1996
	5545208	Wolff et al.	08/1996
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	6093200	Liu et al.	07/2000
	6120788	Barrows	09/2000

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<i>[Handwritten signature]</i>	6147135	Yuan et al.	11/2000
	6159950	Crystal et al.	12/2000
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	20030208138	Olson	11/2003

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Jaw	20040068284	Barrows	04/2004	
	20040096514	Vogel	05/2004	

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		CA2199918	Bezwada et al.	09/1997	Y	
		EP00845963	Isolagen International	09/2003	Y	
		EP0236014	Univ Dundee	09/1987	Y	
		EP1002859	Isotus B.V.	05/2000	Y	
		EP1083874	Hamilton et al.	01/2004	Y	
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		EP1437042	Shiseldo Company Ltd.	07/2004	Y	
		EP405656	Univ Dundee	01/1991	Y	
		EP971679	Gho et al.	06/2002	Y	
		JP3273028	PolyPlastics	12/1991	N	Y
		JP3328229	Japan Science & Technology Corp.	11/2003	N	Y
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		WO199934750	BioAmide Inc.	07/1999	Y	
		WO199962491	Guilford Pharmaceuticals Inc.	06/1998	Y	
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		WO200166472	Tei Biosciences, Inc.	09/2001	Y	
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		WO2002070728	The John Hopkins University	09/2002	Y	
	WO200215952	Barrows	04/2004	Y		

Examiner Signature	<i>Thomas H. Barrows</i>	Date Considered	12-26-04
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				Application Number	10/810,518
				Filing Date	March 26, 2004
				First Named Inventor	Thomas H. Barrows
				Group Art Unit	1614
Examiner Name	Unknown				
Sheet	6	of	6	Attorney Docket Number	010414-9012

FOREIGN PATENT DOCUMENTS							
Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
<i>DB</i>			WO2003022043	Shiseido Company Ltd.	03/2003	N	Y
<i>DB</i>			WO2003104443	Hoffman	12/2003	N	Y
<i>DB</i>			WO2004044188	Intercytex Limited	05/2004	Y	

Examiner Signature	<i>Deborah K. Way</i>	Date Considered	12-26-06
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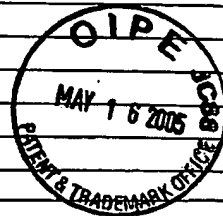
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**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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<i>DLR</i>	ARASE, Seigi, <i>et al.</i> , Tokushima J. exp. Med. 36: 87-95 (1989)
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Examiner Signature	<i>Deborah K. Wilson</i>	Date Considered	12-26-06
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				First Named Inventor	Thomas H. Barrows
				Group Art Unit	1614
				Examiner Name	Unknown
Sheet	2	of	8	Attorney Docket Number	010414-9012

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<i>See</i>	EVANS, G.R., Brandt, K., Widmer, M.S., Lu, L., Meszlenyi, R.K., Gupta, P.K., Mikos, A.G., Hodges, J., Williams, J., Gurlek, A., Nabawi, A., Lohman, R., and Patrick, C.W. Jr., "In vivo evaluation of poly(L-lactic acid) porous conduits for peripheral nerve regeneration" <i>Biomaterials</i> 20 (1999) 1109-1115.
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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Examiner Signature	<i>Quah Kwan</i>	Date Considered	12-26-06

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			First Named Inventor	Thomas H. Barrows	
			Group Art Unit	1614	
			Examiner Name	Unknown	
Sheet	4	of	8	Attorney Docket Number	010414-9012

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Jan	MESSENGER AG, "The control of hair growth: an overview" <i>J Invest Dermatol</i> 1993 Jul;101(1 Suppl):4S-9S

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<i>See</i>	MESSENGER, (1984) <i>British Journal of Dermatology</i> 110, 685-689.
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Examiner Signature	<i>John E. Wells</i>	Date Considered	12-26-06
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<i>JS</i>	OLIVER RF and JAHODA CAB, (1989) "The Dermal Papilla and Maintenance of Hair Growth" Dermal Papilla and Hair Growth Chapter 4, 51-67. Cambridge: Cambridge University Press.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/810,518
				Filing Date	March 26, 2004
				First Named Inventor	Thomas H. Barrows
				Group Art Unit	1614
				Examiner Name	Unknown
Sheet	7	of	8	Attorney Docket Number	010414-9012

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
ma	REYNOLDS & JAHODA, (1991a) "Inductive Properties of Hair Follicle Cells" <i>Annals New York Academy of Sciences</i> , 624:226-242.
	REYNOLDS AJ, <i>et al.</i> (1992) "Human Hair Follicular Germinative Epidermal Cell Culture" <i>J Invest Dermatol</i> , 101(4): 634-638.
	REYNOLDS, AJ, <i>et al.</i> , <i>Nature</i> 402: 33-34, (Nov. 4, 1999)
	ROGERS <i>et al.</i> "Cultivation of murine hair follicles as organoids in a collagen matrix" <i>J Invest Dermatol</i> . 1987 Oct;89(4):369-79.
	SATO, <i>et al.</i> , (1999), "Induction of the hair growth phase in postnatal mice by localized transient expression of sonic hedgehog", <i>J. Clin. Invest.</i> 104:855-864.
	SCOTT DM, <i>et al.</i> (1995) "Identification of a mouse male-specific transplantation antigen, H-Y" <i>Nature</i> 376:695-698.
	STENN and Paus, "Controls of Hair Follicle Cycling" <i>Physiological Reviews</i> , Vol. 81, No. 1, January 2001, pp. 449-494.
	STENN, <i>et al.</i> , (1996) <i>Dermatol Clinics</i> 14:543-558.
	STENN KS, "Induction of hair follicle growth" <i>J. Invest Dermatol</i> 1991 May;96(5):80S
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	TOMIHATA K and Ikada Y, "Crosslinking of hyaluronic acid with water-soluble carbodiimide" <i>J. Biomed. Mater. Res.</i> 37, 243-251 (1997).
ma	TREMPUS <i>et al.</i> (2003) "Enrichment for living murine keratinocytes from the hair follicle bulge with the cell surface marker CD34" <i>J Invest Dermatol</i> 120:501-11.

Examiner Signature	<i>Debra A. Wa</i>	Date Considered	12-26-06
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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<i>OK</i>	WATSON SAJ, <i>et al.</i> , (1994) "Sheep vibrissa dermal papillae induce hair follicle formation in heterotypic skin equivalents" <i>Br J Dermatol</i> , 131:827-835.
<i>S</i>	WEINBERG, <i>et al.</i> "Reconstruction of hair follicle development in vivo: determination of follicle formation, hair growth, and hair quality by dermal cells: <i>Journal of Investigative Dermatology</i> 100(3), March 1993, 229-236.
<i>S</i>	WIDELITZ <i>et al.</i> , 1997, "Molecular Histology in Skin Appendage Morphogenesis" <i>Microsc., Res. Tech.</i> , 38:452-465
<i>S</i>	WILSON C. <i>et al.</i> , "Cells within the bulge region of mouse hair follicle transiently proliferate during early anagen: heterogeneity and functional differences of various hair cycles" <i>Differentiation</i> 1994 Jan;55(2):127-36
<i>S</i>	YAGITA (1996) "CD95 ligand graft rejection" <i>Nature</i> 379:682-683.
<i>S</i>	YANG <i>et al.</i> (1999) "p63 is essential for regenerative proliferation in limb, craniofacial and epithelial development: <i>Nature</i> 398:714-718.
<i>S</i>	YANG, <i>et al.</i> , (1993), "Upper-Human Hair Follicle Contains a Subpopulation of Keratinocytes with Superior In Vitro Proliferative Potential", In vitro Growth of Follicular Keratinocytes, <i>The Journal of Investigative Dermatology</i> , Vol. 101, No. 5, 652-659.
<i>OK</i>	YUSPA SH, <i>et al.</i> , <i>Journal of Investigative Dermatology</i> 101(1), Supplement, July 1993, 27S-32S.

Examiner Signature	<i>Julius Kwan</i>	Date Considered	<i>12-26-02</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 1 of 1	Complete if Known	
	Application Number	10/810,518
	Filing Date	March 26, 2004
	First named Inventor	Thomas H. Barrows
	Group Art Unit	1614
	Examiner name	Unknown
Attorney Docket Number		010414-9012- US00
U.S. Patent Documents		

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
Law	5,690,961	Nguyen	11/25/1997

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract

Examiner Signature	<i>Debra K. War</i>	Date Considered	1-3-07
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		Application Number	10/810,518
		Filing Date	March 26, 2004
		First named Inventor	Thomas H. Barrows
		Group Art Unit	1614
		Examiner name	Not yet assigned
		Attorney Docket Number	010414-9012-US00
U.S. Patent Documents			

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
DKW	6,383,220	Van Blitterswijk et al.	05/2002

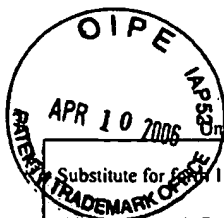
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
DKW	JP	10-136977	Toyo Boseki	05/1998		Y
DKW	JP	4-108444	Gunze KK	04/1992		Y
DKW	JP	7-48769	Mitsui Toatsu Chemicals	02/1995		Y

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				Examiner Name	Not yet assigned
Sheet	1	of	1	Attorney Docket Number	010414-9012-US00

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Staw		STENN, K.S. et al., "Bioengineering the hair follicle: fringe benefits of stem cell technology," Curr. Opin. Biotech. (2005) 16(5):493-497
Staw		WORST, P.K.M. et al., "Reformation of organized epidermal structure by transplantation of suspensions and cultures of epidermal and dermal cells," Cell Tiss. Res. (1982) 225(1):65-77
Staw		ZHENG, Y. et al., "Organogenesis from dissociated cells: generation of mature cycling hair follicles from skin-derived cells," J. Invest. Dermatol. (2005) 124:867-876

Examiner Signature	<i>Deborah K. Wang</i>	Date Considered	1-3-07
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